IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Appellants:	Jennifer Jie Fu	Patent Application	
Application Number:	10/636,082	Group Art Unit:	2179
Filed:	August 7, 2003	Examiner:	Chuong, T.

For: REUSEABLE HIGH LEVEL GRAPHICAL USER INTERFACE TEMPLATE

APPEAL BRIEF

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I. Real Party in Interest

The assignee of the present invention is Hewlett-Packard Development Company, L.P.

II. Related Appeals and Interferences

There are no related appeals or interferences known to the Appellant.

III. Status of Claims

Claims 1-19 are rejected. This Appeal involves Claims 1-19.

IV. Status of Amendments

All proposed amendments have been entered. An amendment subsequent to the Final Action has not been filed.

V. Summary of Claimed Subject Matter

Independent Claims 1, 11, and 16 of the present application pertain to embodiments associated with methods and systems for implementing a graphical user interface (GUI) template, wherein the GUI template is configured to create one of a plurality of GUIs. selecting a primary resource in a redundant subsystem.

As recited in Claim 1, an "article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template" is disclosed. One embodiment is depicted at least in Figure 2, and paragraphs [0009] and [0037]. As described in the instant disclosure at least in paragraph [0009] and Figure 2, one embodiment includes computer readable code for rendering a plurality of GUI components. At least in Figure 2 and paragraphs [0009] and [0037], the instant disclosure includes computer readable code for implementing a plurality of functions, each of said plurality of functions being associated with one of said plurality of GUI components, one of the plurality of functions being invoked when a respective one of the plurality of GUI components is activated by a user via the one of said plurality of GUIs, wherein the plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of the one of said plurality of functions being invoked. Furthermore, the instant disclosure includes at least in 212 of Figure 2 and paragraphs [0009], [0010], and [0030], computer readable code for implementing a calling mechanism, the calling mechanism permitting a user to specify a subset of the plurality of GUI components to be rendered in the one of said plurality of GUIs.

As recited in Claim 11, a "method for creating a re-usable high level graphical user interface (RHL-GUI) template" is disclosed. One embodiment is depicted at least in Figures

2 and 3. As described in the instant disclosure in at least Figure 3 and paragraphs [0010] and [0024]-[0026], one method includes ascertaining a plurality of required components for the RHL-GUI template, each of the plurality of required components being implemented using furnished features in a GUI creation software. The instant disclosure further includes in at least 210 of Figure 2 and paragraphs [0010] and [0027] 31, ascertaining a default look-and-feel for the RHL-GUI template. Furthermore, the instant disclosure includes in at least paragraphs [0010] and [0023] coding a set of functions. The instant disclosure also includes in at least paragraphs [0010], [0023] and [0033] associating the set of functions with selective ones of the plurality of required components of said RHL-GUI template, one of the set of functions being invoked when an associated one of the selective ones of the plurality of required components is activated by a user, wherein the set of functions are created, tested, and integrated with the plurality of required components for the RHL-GUI template in advance of the one of the set of functions being invoked. Moreover, the instant disclosure includes in at least 212 of Figure 2 and paragraphs [0010] and [0030] providing a calling mechanism for the RHL-GUI template, the calling mechanism, when invoked, renders said RHL-GUI template having the plurality of required components, implementing the functions, and conforming to the default look-and-feel.

As recited in Claim 16, an "article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template" is disclosed. One embodiment is depicted at least in Figure 2. As described in the instant disclosure at least in paragraph [0009], [0010], and [0030], and 212 of Figure 2, one embodiment includes computer readable code for rendering a calling mechanism. At least in Figure 2 and paragraphs [0009] and Figure 2, the instant disclosure includes computer readable code for

rendering a plurality of GUI components. Furthermore, the instant disclosure includes at least in paragraphs [0009], [0010], [0023], [0033], and [0037], computer readable code for implementing a plurality of functions, each of the plurality of functions being associated with one of the plurality of GUI components, one of said plurality of functions being invoked when a respective one of the plurality of GUI components is activated by a user via the one of the plurality of GUIs, wherein the plurality of functions are created, tested, and integrated with the plurality of GUI components in advance of the one of the plurality of functions being invoked; at least one of the plurality of functions, when invoked, affects a GUI component other than a GUI component associated with the at least one of the plurality of functions, wherein the calling mechanism permits a user to specify a subset of the plurality of GUI components to be rendered in the one of the plurality of GUIs, the calling mechanism further includes a mechanism for receiving data to be rendered in a given one of the plurality of GUI components.

VI. Grounds of Rejection to Be Reviewed on Appeal

1. Claims 1-19 are rejected under 35 U.S.C. §102(b) as being anticipated by Tung Ng et al. (U.S. Patent Application No. 6,279,008) (hereinafter, "Tung").

VII. Argument

1. Whether Claims 1-19 are anticipated by Tung under 35 U.S.C. §102(b).

The Office Action Mailed on November 14, 2008, 2007 (hereinafter, "instant Office Action") states that Claims 1-19 are rejected under 35 U.S.C. §102(b) as being anticipated by Tung. The rejections and comments set forth in the instant Office Action have been carefully considered by the Appellant. Appellant respectfully submits that Claims 1-19 are not anticipated by Tung in view of at least the instant response.

Appellant respectfully notes that Claim 1 recites (Claims 11 and 16 include similarly amended features):

> An article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template, said GUI template being configured to create one of a plurality of graphical user interfaces (GUIs), comprising:
>
> computer readable code for rendering a plurality of GUI components;
>
> computer readable code for implementing a plurality of functions, each of said plurality of functions being associated with one of said plurality of GUI components, one of said plurality of functions being invoked when a respective one of said plurality of GUI components is activated by a user via said one of said plurality of GUIs, wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said one of said plurality of functions being invoked; and
>
> computer readable code for implementing a calling mechanism, said calling mechanism permitting a user to specify a subset of said plurality of GUI components to be rendered in said one of said plurality of GUIs.

(Emphasis added.)

Appellant respectfully notes, "[a] claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference". MPEP §2131; *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 103 (Fed. Cir. 1987). ... "The identical invention must be shown in as complete detail as is contained in the ... claim." *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). "The elements must be arranged as required by the claim..." *In re Bond*, 910 F.2d 831, 15 USPQ2d 1913, 1920 (Fed. Cir. 1989).

The instant Office Action states that,

> Tung shows an article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template, said GUI template being configured to create one of a plurality of graphical user interfaces (GUIs), comprising:
>
> computer readable code for rendering a plurality of GUI components (GUI to display object oriented applications and tables in database...;
>
> computer readable code for implementing a plurality of functions..., each of said plurality of functions being associated with one of said plurality of GUI components...,one of said plurality of functions being invoked when a respective one of said plurality of GUI components is activated by a user via said one of said plurality of GUIs... wherein said plurality of functions are created, tested, and integrated with plurality of GUI components in advance of said one of said plurality of functions being invoked (the GUI designed consistent with the present invention supports object-database mapping and rapid testing of numerous object-oriented and database scenarios. This GUI allows characteristics associated with the tables in the database and the classes in the object-oriented applications to be accessed, edited, and created in an efficient manner. e.g., col. 1 lines 60-67); and
>
> computer readable code for implementing a calling mechanism, said calling mechanism permitting a user to specify a subset ... of said plurality of GUI components to be rendered in said one of said plurality of GUIs...]

(Emphasis in original; instant Office Action, page 2-3, section 1.)

Appellant respectfully submits that Tung does not anticipate "computer readable code for implementing a plurality of functions, each of said plurality of functions being associated with one of said plurality of GUI components, one of said plurality of functions being invoked when a respective one of said plurality of GUI components is activated by a user via said one of said plurality of GUIs, wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said one of said plurality of functions being invoked" (emphasis added) as is recited in Appellant's Claim 1.

Appellant understands Tung to disclose an "integrated graphical user interface method and apparatus for mapping between objects and databases" (Tung, Title) in which "[a] GUI designed consistent with the present invention [Tung] supports object-database mapping and rapid testing of numerous object-oriented and database scenarios" (Tung, column 4, lines 13-16). Additionally, Tung provides for:

> [s]tored procedures [that] allow users to develop software routines that manipulate tables and data in a database. Typically, stored procedures are compiled and stored in the database when the database is created. A user may indirectly invoke these stored procedures in an object-oriented application by adding, deleting, and operating on objects.

(Emphasis added; Tung, column 4, lines 44-49.) In other words, Appellant understands Tung to test data mapped to an object in response to a user's attempt (via a selection of data) to integrate the data with the object.

In contrast, in one embodiment, Appellant's Claim 1 provides for an already created and tested function (e.g. an "items-sold" function to sum the costs of all the items sold [Appellant's specification, paragraph [0022]) that does not have to be programmed by a GUI

developer (Appellant's specification, paragraph [0022]), is itself already integrated with a GUI component, and available for activation (via selection) by a user (Appellant's Claim 1).

For example, Appellant's specification at paragraph [0020] states:

> In accordance with one embodiment of the invention, there is provided a re-usable high level graphical user interface (RHL-GUI) template, which integrates low-level graphical components, functions, and one or more selectable look-and-feel schemes, to enable GUI developers to quickly create GUIs for a given software product. Unlike in the prior art, the GUI developer no longer needs to perform the task of coding the required functions and integrating the functions with the low-level graphical components in order to create the required GUI. Instead, the coding of the functions and the integration of a function with its respective graphical component (e.g., a button) are performed beforehand and embedded as part of the RHL-GUI template.

Furthermore, "in the prior art, the task of programming the functions are typically left to the GUI developers themselves" (Appellant's specification, paragraph [0022]). However, "[w]ith the RHL-GUI template, …, a set of functions is coded in advanced (sic), tested, and provided to the GUI developer for selection. Furthermore, the RHL-GUI template integrates in advance the functions with graphical components, such as user-selectable or user-clickable graphical components…" (Appellant's specification, paragraph [0023]).

Specifically, Tung fails to disclose, "wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said implementing", as is recited in Appellant's Claim 1. Whereas Tung discloses a system in which numerous objects may be rapidly *tested after* the objects have been added to, deleted from, and operated upon, Appellant's Claim 1 teaches a plurality of functions that are created, tested, and integrated with GUI components *in advance* of creating a GUI.

(Appellant's Claim 1; Appellant's specification, paragraph [0020].) Therefore, Appellant respectfully submits that Tung does not anticipate, "wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said implementing", (emphasis added) as is recited in Appellant's Claim 1.

Therefore, Appellant respectfully submits that Tung does not anticipate the features as are set forth in independent Claim 1, and as such, Claim 1 traverses the rejection under 35 U.S.C. §102(b) and is condition for allowance. Accordingly, Appellant also respectfully submits that Tung does not anticipate Claims 11 and 16 for reasons stated herein in regards to Claim 1. Furthermore, Appellant respectfully submits that Claims 2-10 depending on Claim 1, Claims 12-15 depending on Claim 11, and Claims 17-19 depending on Claim 16, overcome the rejection under 35 U.S.C. §102(b) as being dependent on an allowable base Claim.

CONCLUSION

Appellant believes that pending Claims 1-19 are directed toward patentable subject matter. As such, Appellant respectfully requests that the rejections of Claims 1-19 be reversed.

The Appellant wishes to encourage the Examiner or a member of the Board of Patent Appeals to telephone the Appellant's undersigned representative if it is felt that a telephone conference could expedite prosecution.

Respectfully submitted,
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Dated: 03/11/2009

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VIII. Appendix - Clean Copy of Claims on Appeal

What is claimed is:

1. An article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template, said GUI template being configured to create one of a plurality of graphical user interfaces (GUIs), comprising:

computer readable code for rendering a plurality of GUI components;

computer readable code for implementing a plurality of functions, each of said plurality of functions being associated with one of said plurality of GUI components, one of said plurality of functions being invoked when a respective one of said plurality of GUI components is activated by a user via said one of said plurality of GUIs, wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said one of said plurality of functions being invoked; and

computer readable code for implementing a calling mechanism, said calling mechanism permitting a user to specify a subset of said plurality of GUI components to be rendered in said one of said plurality of GUIs.

2. The article of manufacture of claim 1 wherein at least two of said plurality of said GUIs have different sets of GUI components, each of said sets of GUI components being a subset of said plurality of GUI components.

3. The article of manufacture of claim 1 wherein said plurality of GUI components comprise a required subset and an optional subset, said required subset representing GUI components to be rendered in each of said plurality of GUIs, said optional subset representing GUI components rendered only when specified by said user through said calling mechanism.

4. The article of manufacture of claim 3 further comprising computer readable code implementing a visual scheme for said one of said plurality of (GUIs).

5. The article of manufacture of claim 3 further comprising computer readable code implementing plurality of user-selectable visual schemes for said one of said plurality of (GUIs), said plurality of user-selectable visual schemes being selectable through said calling mechanism.

6. The article of manufacture of claim 5 wherein said plurality of user-selectable visual schemes include locations for at least one of said plurality of GUI components.

7. The article of manufacture of claim 1 further comprising computer readable code for implementing an application programming interface (API) to facilitate extending said one of said plurality of GUIs.

8. The article of manufacture of claim 1 further comprising computer readable code for implementing an application programming interface (API) to facilitate inter-operability.

9. The article of manufacture of claim 1 wherein said calling mechanism further includes a mechanism for receiving data to be rendered in a given one of said plurality of said GUI components.

10. The article of manufacture of claim 9 wherein said given one of said plurality of GUI components is one of a table, a graph, and a chart.

11. A method for creating a re-useable high level graphical user interface (RHL-GUI) template, comprising:

ascertaining a plurality of required components for said RHL-GUI template, each of plurality of required components being implemented using furnished features in a GUI creation software;

ascertaining a default look-and-feel for said RHL-GUI template;

coding a set of functions;

associating said set of functions with selective ones of said plurality of required components of said RHL-GUI template, one of said set of functions being invoked when an associated one of said selective ones of said plurality of required components is activated by

a user, wherein said set of functions are created, tested, and integrated with said plurality of required components for said RHL-GUI template in advance of said one of said set of functions being invoked;

providing a calling mechanism for said RHL-GUI template, said calling mechanism, when invoked, renders said RHL-GUI template having said plurality of required components, implementing said functions, and conforming to said default look-and-feel.

12. The method of claim 11 further comprising:

ascertaining a plurality of optional components for said RHL-GUI template, each of said plurality of said optional components being implemented using said furnished features in said existing GUI creation software;

providing optional calling parameters for said calling mechanism, said optional calling parameters, when invoked in conjunction with said calling mechanism, renders at least a subset of said plurality of optional components as part of said RHL-GUI template.

13. The method of claim 11 wherein said GUI creation software is Java Swing™.

14. The method of claim 11 wherein said RHL-GUI template pertains to a table GUI.

15. The method of claim 11 further comprising:

providing an application programming interface with said RHL-GUI template to facilitate interoperability between said RHL-GUI template and other components external to said RHL-GUI template.

16. An article of manufacture comprising a program storage medium having computer readable code embodied therein, said computer readable code being configured to implement a graphical user interface (GUI) template, said GUI template being configured to create one of a plurality of graphical user interfaces (GUIs), comprising:

computer readable code for implementing a calling mechanism;

computer readable code for rendering a plurality of GUI components;

computer readable code for implementing a plurality of functions, each of said plurality of functions being associated with one of said plurality of GUI components, one of

said plurality of functions being invoked when a respective one of said plurality of GUI components is activated by a user via said one of said plurality of GUIs, wherein said plurality of functions are created, tested, and integrated with said plurality of GUI components in advance of said one of said plurality of functions being invoked; at least one of said plurality of functions, when invoked, affects a GUI component other than a GUI component associated with said at least one of said plurality of functions, wherein said calling mechanism permits a user to specify a subset of said plurality of GUI components to be rendered in said one of said plurality of GUIs, said calling mechanism further includes a mechanism for receiving data to be rendered in a given one of said plurality of GUI components.

17. The article of manufacture of claim 16 wherein at least two of said plurality of said GUIs have different sets of GUI components, each of said sets of GUI components being a subset of said plurality of GUI components, said different sets of GUI components being specified through said calling mechanism.

18. The article of manufacture of claim 16 wherein said plurality of GUI components comprise a required subset and an optional subset, said required subset representing GUI components to be rendered in each of said plurality of GUIs, said optional subset representing GUI components rendered only when specified by said user through said calling mechanism.

19. The article of manufacture of claim 16 further comprising computer readable code implementing plurality of user-selectable visual schemes for said one of said plurality of (GUIs), said plurality of user-selectable visual schemes being selectable through said calling mechanism.

IX. Evidence Appendix

No evidence is herein appended.

X. Related Proceedings Appendix

No related proceedings.